



Vermont Yankee Nuclear Power Station Decommissioning

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WCS Current Facilities



Licensed & Hazardous Treatment and Disposal Service Capabilities

Commercial Waste

- In- and Out-of-Compact Class A, B, and C LLRW



Federal Waste

- Federal Class A, B, and C LLRW and MLLRW



Low Activity

- Certain low activity waste in Hazardous Waste Landfill



Transportation

- 3 state-of-the-art Type B Casks
- 2 Type A Casks
- Onsite Locomotive, 4 mile rail loop



Processing

- Dewatering, Stabilization, Repackaging, MACRO, Solidification, Chemical Oxidation, Sorting and Segregating



Regulatory and Commission Oversight

Texas Commission on Environmental Quality

- NRC “Agreement State” Regulates Disposal of LLRW
- WCS enjoys a robust and open working relationship with TCEQ with 2 fulltime Resident Inspectors onsite who authorize final acceptance of all CWF waste as well as monitor and review all other site activities, including FWF shipment receipts and TSDF processing and treatment.
- Radioactive Materials Division (RMD) issues and oversees licensing activities
- Industrial and Hazardous Waste (IHW) Permit Division issues and oversees permitted treatment, storage, and disposal activities

Texas Department of State Health Services

- Transportation of LLRW
- Regulates generators of LLRW that are not NRC licensees

Texas Low Level Radioactive Waste Disposal Compact Commission

- Federal Interstate Compact – 6 TX Gubernatorial appointees, 2 VT
- Preservation of capacity for generators in TX and VT

Nuclear Regulatory Commission

- Special Nuclear Material (SNM) Exemption

R04100 Licensed Disposal and Treatment

Compact Waste Disposal Facility: LLRW Class A, B, and C

- 9,000,000 cubic feet and 3,890,000 curies
- TCEQ has taken ownership of Texas Compact Landfill and WCS leases it back for operations

Federal Waste Disposal Facility: LLRW and MLLW Class A, B, and C & TSCA Authorized

- 26,000,000 cubic feet and 5,600,000 curies total
- DOE signed Agreement to take ownership of the Federal Landfill after post-closure

Treatment, Storage and Disposal Facility: LLRW, MLLW, and GTCC & TSCA Authorized

1. Bin Storage Unit 1: 87,480 cubic feet.
2. Container Storage Building: 36,750 cubic feet
3. Stabilization Building: 8,000 cubic feet
4. LSA Storage Area: 1,500,000 cubic feet
5. Bin Storage Unit 2: 174,960 cubic feet

License Term

- Through September 2024 with provision for 10-year renewals thereafter

Permitted and TSCA Authorized Disposal

Permit 50358 - RCRA Treatment, Storage, and Subtitle C Landfill: Hazardous and Industrial Waste & TSCA Authorized

- Subtitle C Landfill current disposal capacity is 30,000 yd³
- Subtitle C Landfill currently expanding, upon completion an additional 340,000 yd³ of disposal capacity. Estimated completion mid 2018
- Hazardous and Industrial waste, LDR compliant waste, and PCB waste
- Also accepts Radiologically exempt waste up to 10% of Class A limits – Exemption process is authorized under WCS R04100 license, license condition 192.

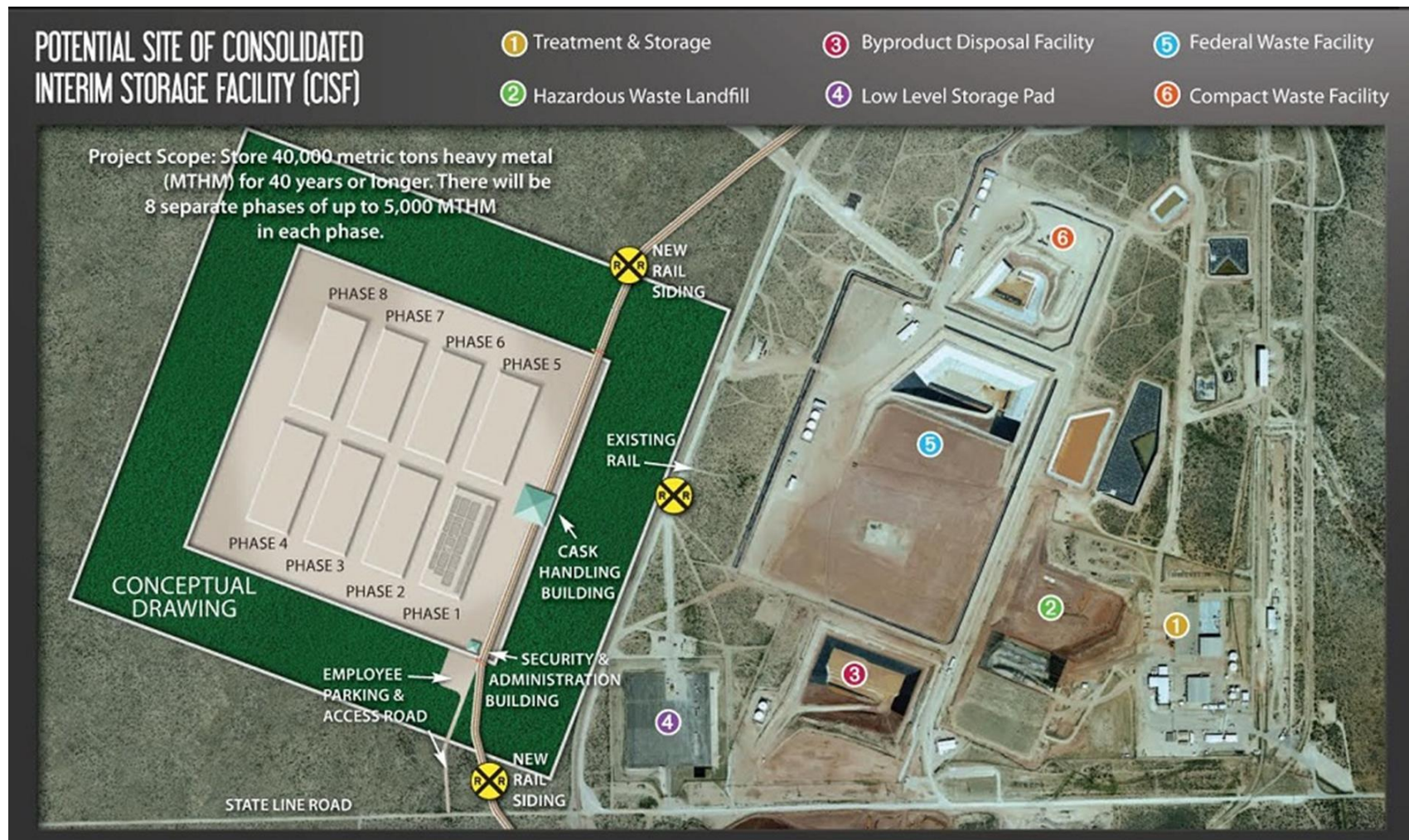
Permit 50397 – FWF RCRA Permit: Hazardous & TSCA Authorized

- Permitted landfill capacity 4,912,000 cubic yards
- Permitted storage capacity of containerized waste 22,140 cubic feet

WCS Consolidated Interim Storage Facility (CISF) Application

- WCS CISF License Application was originally submitted April 28, 2016
- WCS requested the review be suspended on April 18, 2017
- Joint Venture of WCS and Orano (formerly Areva) named Interim Storage Partners will request a restart of the NRC review by June 30, 2018
- The WCS CISF does not compete against a permanent repository
 - Over 70,000 MTHM generated to date, WCS CISF only licensing 40,000 MTHM
- Consolidation of multiple sites into one will save government licensing and security costs
- Includes Orano NUHOMS® and NAC International storage systems which prioritizes removal of fuel from shutdown sites
- WCS site is environmentally well-characterized, and enjoys broad local, state and congressional support.
- Licensing decision is possible by 2020
- WCS, Orano, and NAC have the qualifications and capabilities to license, construct, and operate the facility.

WCS Facility with CISF – Site Layout



WCS Facility with CISF – Conceptual Drawing

